Today's Plan:

Learning Target (standard): I will represent data through equations, tables and graphs. I will interpret the meaning of each of these as they pertain to the situation.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.

NAME _____   5

clear the fractions

BELL RINGER

1.) Solve $\dfrac{4}{5}x = 8$.

$$5\left[\dfrac{4}{5}x = 8\right] \qquad \dfrac{4x}{4} = \dfrac{40}{4} \qquad x = 10$$

2.) Evaluate the expression $-16 + (-9)$.

$$-16 - 9$$
$$-25$$

3.) Write the verbal sentence as an equation.
        Five more than six times a number n is 11.

$$6n + 5 = 11$$

7) $y = x + \frac{1}{2}$; $(1, \frac{1}{2})$

x, y

① $\frac{1}{2} = 1 + \frac{1}{2}$

$\frac{1}{2} \neq \frac{3}{2}$

no

② $y = 1 + \frac{1}{2}$

$y = \frac{3}{2}$

no

③ $\frac{1}{2} = x + \frac{1}{2}$

$-\frac{1}{2} \qquad -\frac{1}{2}$

$0 = x$

no

Tell whether the given equation has the ordered pair as a solution.

$x \quad y$

17) $y = 3x - 2$ $(-1, -5)$

$-5 = 3(-1) - 2$

$-5 = -3 - 2$

$-5 = -5 \checkmark$

yes

Tell whether the given equation has the ordered pair as a solution.

18) $y = -5x + 7$ $(1, -2)$

$$y = -5(1) + 7$$
$$y = -5 + 7$$
$$y = 2$$

no

Tell whether the given equation has the ordered pair as a solution.

19) $y = -4x - 3$ $(1, 1)$

$$1 = -4x - 3$$
$$+3 \qquad +3$$
$$\frac{4}{-4} = \frac{-4x}{-4}$$
$$x = -1$$

no

Tell whether the given equation has the ordered pair as a solution.

20) $y = 13 + 6x$ $(-1, 7)$ ← x, y

$7 = 13 + 6 \cdot -1$ (Yes)

$7 = 13 - 6$

$7 = 7$ ✓

Tell whether the given equation has the ordered pair as a solution.

21) $y = -\frac{2}{3}x - 5$ $(9, -11)$ ← x

$y = -\frac{2}{3} \cdot \frac{9^3}{1} - 5$ (Yes)

$y = -6 - 5$

$y = -11$

Is (3,10) a solution to the equation $y = 4x - 2$?

$10 = 4(3) - 2$
$10 = 12 - 2$
$10 = 10 \checkmark$ (YES)

(5,18)?

$y = 4(5) - 2$
$y = 20 - 2$
$y = 18 \checkmark$ (YES)

(-5,-20)?

$-20 = 4(-5) - 2$
$-20 = -20 - 2$
$-20 \neq -22$ (no)

(-20,-5)?

$-5 = 4(-20) - 2$
$-5 = -80 - 2$
$-5 \neq -82$ (no)

(1.5,2)?

$y = 4(1.5) - 2$
$y = 6 - 2$ (no)
$y = 4 \neq 2$

Will runs 6 laps before Megan joins him at the track. They run together at the same pace. How can you represent the relationship between the number of laps Will runs and the number of laps that Megan runs in different ways?

IV: Will's laps

DV: Megan's laps

X	Y
6	0
7	1
8	2
9	3
10	4

Will runs 6 laps before Megan joins him at the track. They run together at the same pace. How can you represent the relationship between the number of laps Will runs and the number of laps that Megan runs in different ways?

Write an Equation:

$$DV = \text{relationship to } IV$$

$$\text{Megan's laps} = \text{Will's laps} - 6$$
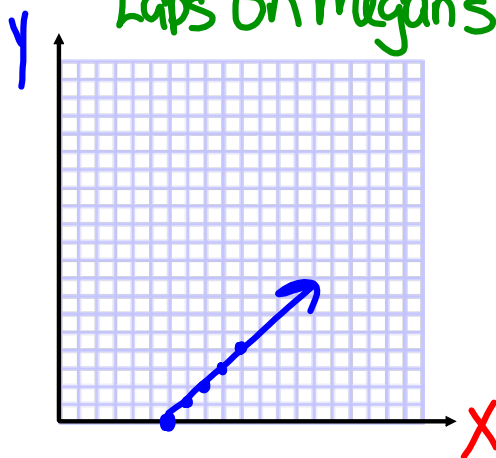
$$y = x - 6$$

Will runs 6 laps before Megan joins him at the track. They run together at the same pace. How can you represent the relationship between the number of laps Will runs and the number of laps that Megan runs in different ways?

Draw a Graph:

The Effect of Will's Laps on Megan's Laps

Megan's Laps (y-axis)

Will's Laps (x-axis)

11) Use a table, an equation and a graph to represent the relationship.

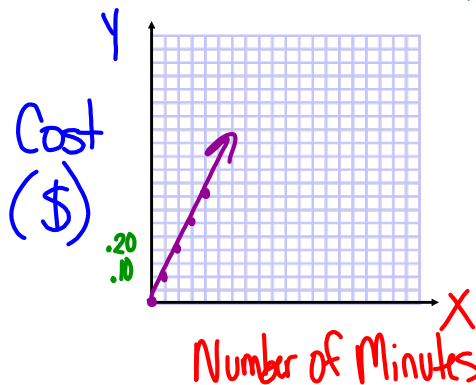The calling plan costs $0.10 per minute.

IV: # of minutes

DV: Cost ($)

Equations:

Cost = minutes • .10

$y = .10x$

# of minutes X	Cost in Dollars Y
0	0
1	.10
2	.20
3	.30
4	.40

The Effect of the Number of Minutes on Cost

Cost ($)

.20
.10

Number of Minutes

Assignment:

Worksheet 1-9 #10-16 even

Complete on a separate sheet of paper

- Independent vs. Dependent Variables
- Chart/Table
- Equation (words & symbols)
- Graph with Titles